FERNALD CLEANUP PROGRESS BRIEFING JUNE 1999

6:30 p.m. Opening Remarks

Gary Stegner

6:35 p.m. Project Updates

Waste Pits Remedial Action Project

On-Site Disposal Facility Project

Decontamination & Dismantlement

Silos Project

Aquifer Restoration/Wastewater Project

Soil Characterization & Excavation Project

Waste Management

John Hall

Dennis Carr

John Trygier

Dave Yockman

John Kappa

Rob Janke

John Sattler

Question and Answer Session

8:30 p.m. Adjourn

PROJECT NEWS OU1 - WASTE PITS REMEDIAL ACTION PROJECT

- Fernald initiates rail shipments to Envirocare
 - Railcar loading operations continue
- Pit excavation to begin this summer
- Future route for rail shipments

RAIL SHIPMENT TO ENVIROCARE

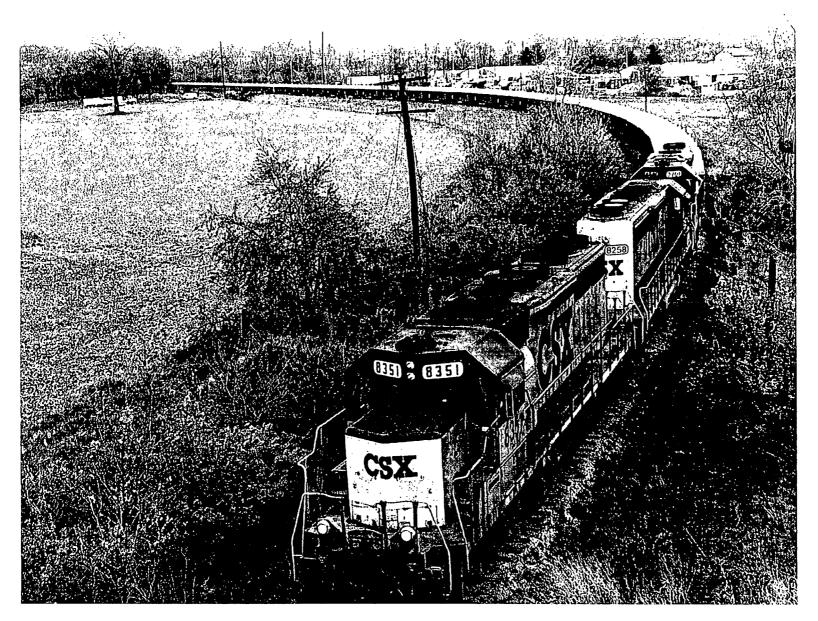


Photo taken April 1999

ENVIROCARE OF UTAH

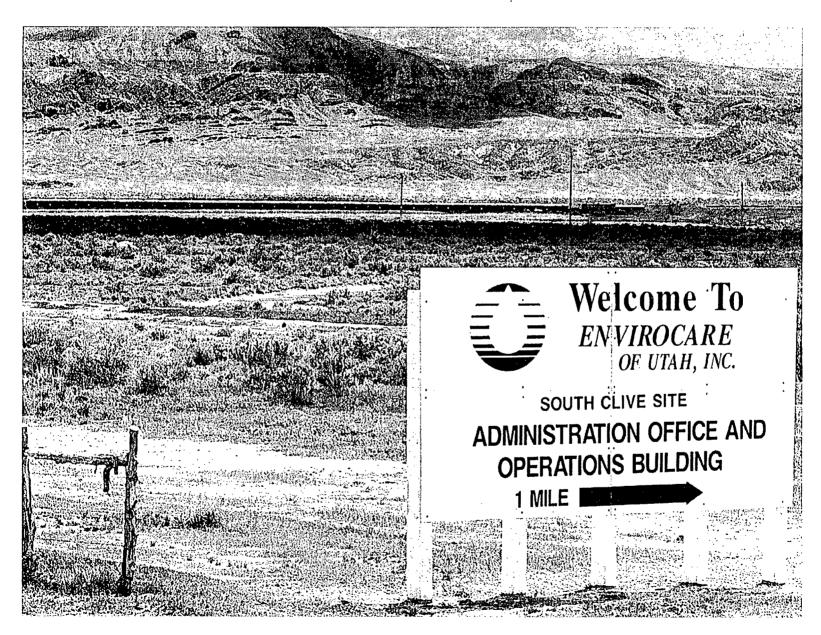


Photo taken May 1999

ENVIROCARE ROLL-OVER FACILITY

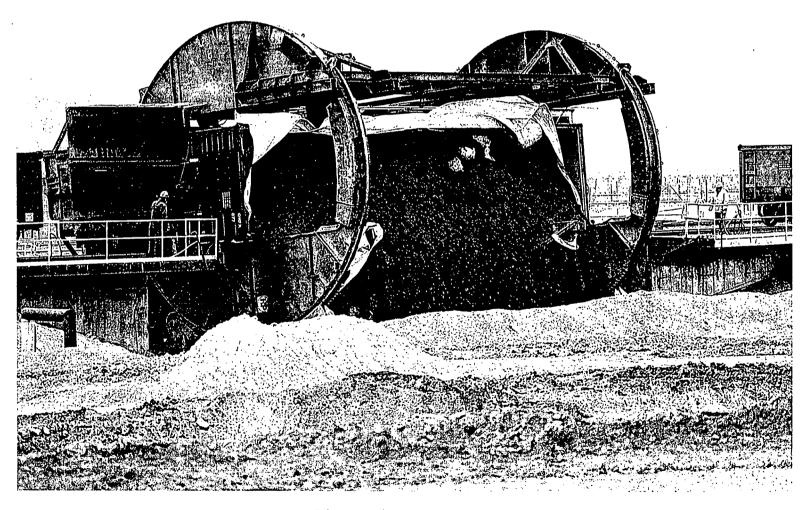


Photo taken May 1999

ENVIROCARE ROLL-OVER FACILITY

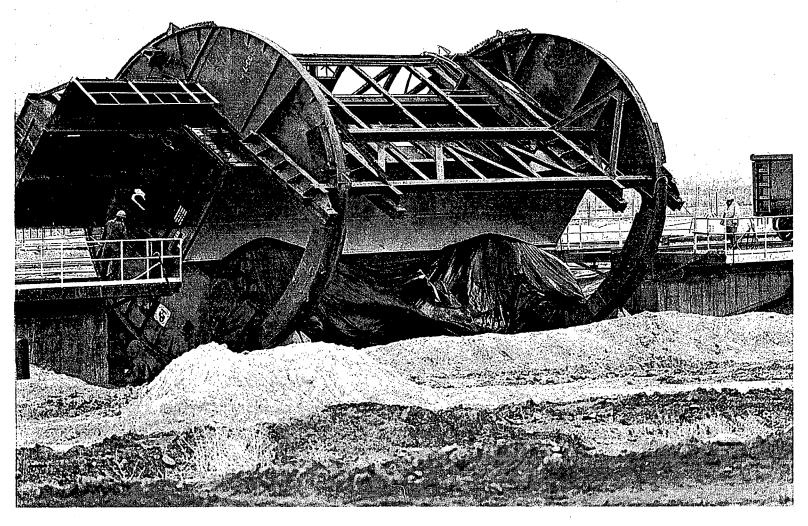
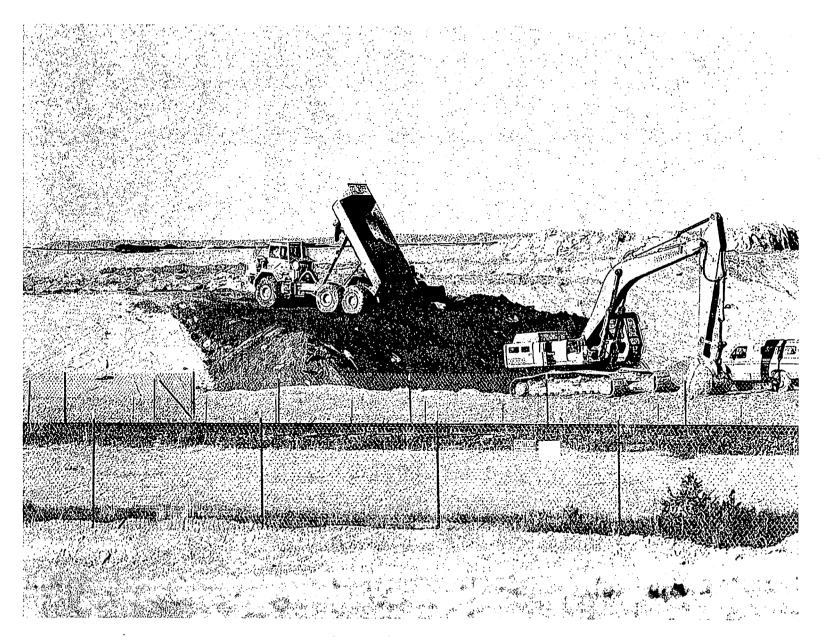
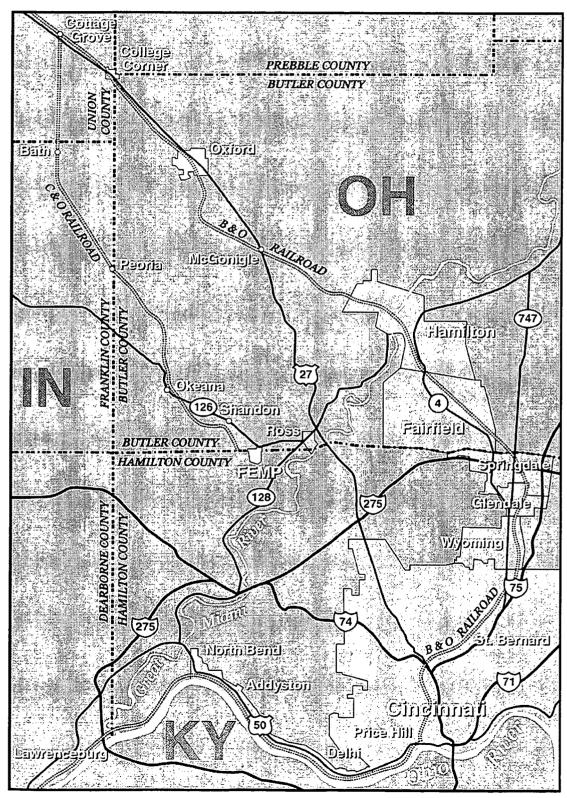


Photo taken May 1999

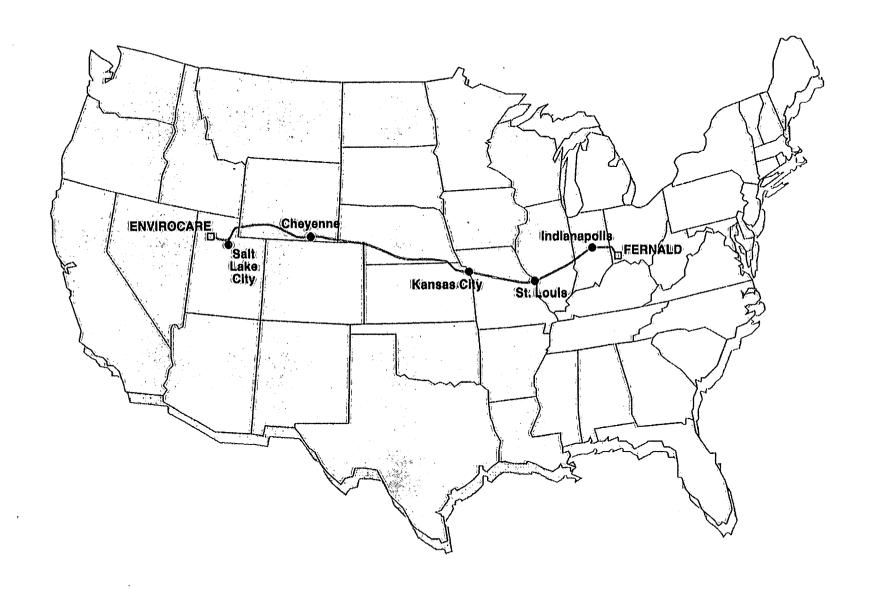
WASTE PLACEMENT AT ENVIROCARE



RAIL ROUTE FOR THE WASTE PITS REMEDIAL ACTION PROJECT



FUTURE RAIL ROUTE TO ENVIROCARE





PROJECT NEWS OU2 - ON-SITE DISPOSAL FACILITY

- Leachate Transmission System
 - Leak investigation reports issued
 - Interim restoration of system being completed
 - Design and construction of permanent system accelerated
- OSDF Operations
 - Cell 3 construction initiated in April
 - Cell 3 clay liner construction to begin in July
 - Waste placement activities to resume in June

INTERIM ABOVE-GRADE LINE



Photo taken May 1999

OSDF CONSTRUCTION

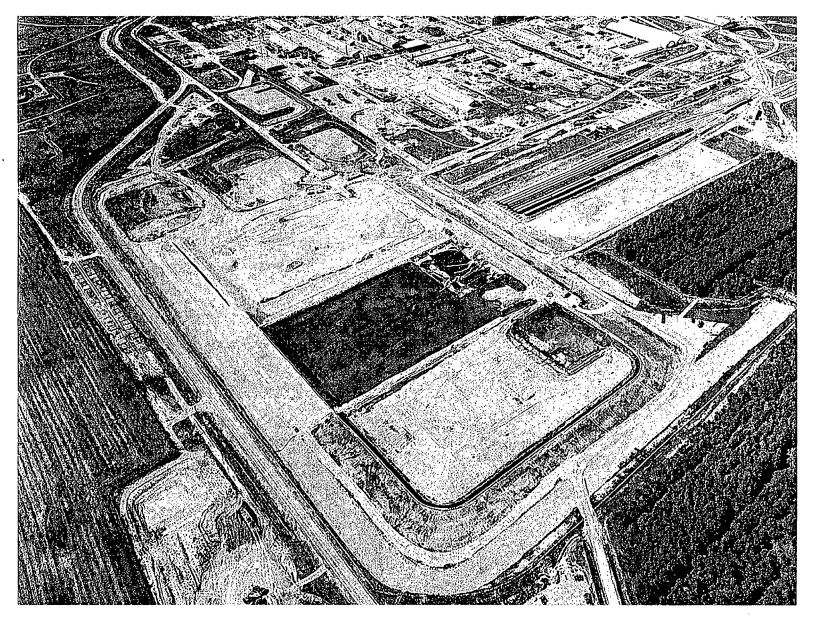


Photo taken April 1999

CELL 3 SUB-GRADE PREPARATION

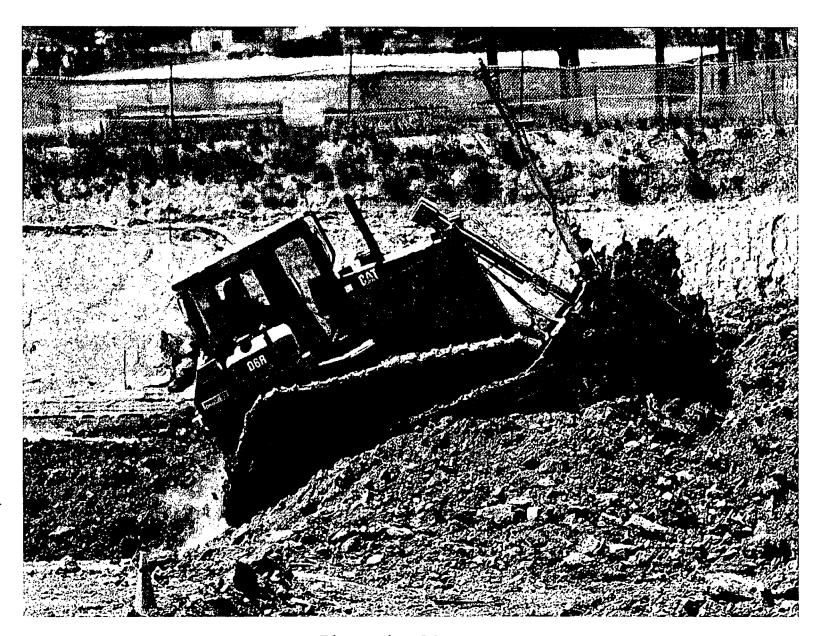


Photo taken May 1999

PROJECT NEWS OU3 - DECONTAMINATION & DISMANTLEMENT

- Plant 5 contract awarded
- Building 12 D&D progress

PLANT 5

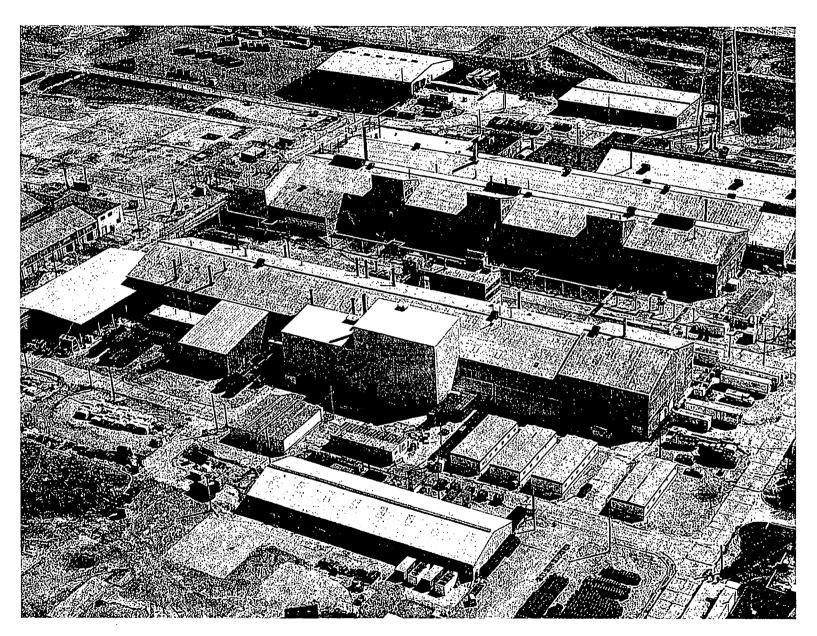


Photo taken April 1999

BUILDING 12 D&D

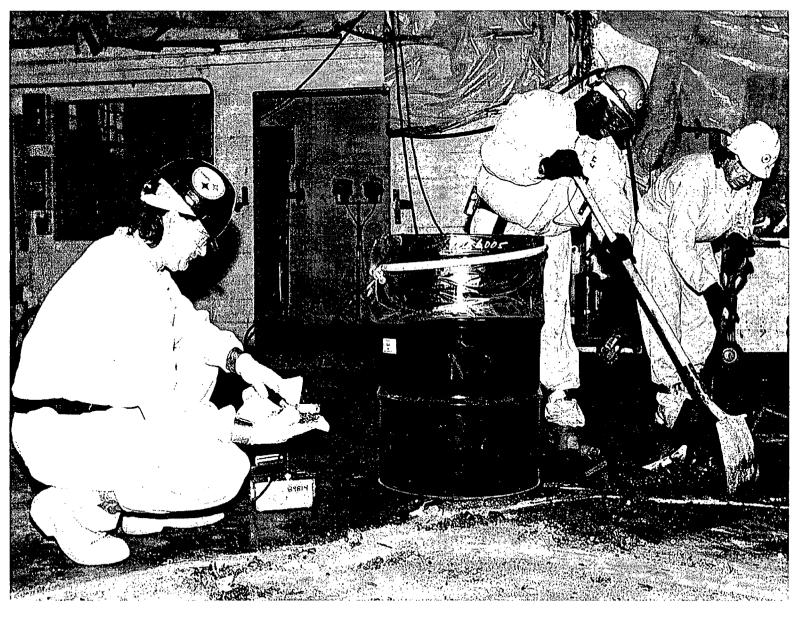


Photo taken May 1999

BUILDING 12 DEMOLITION

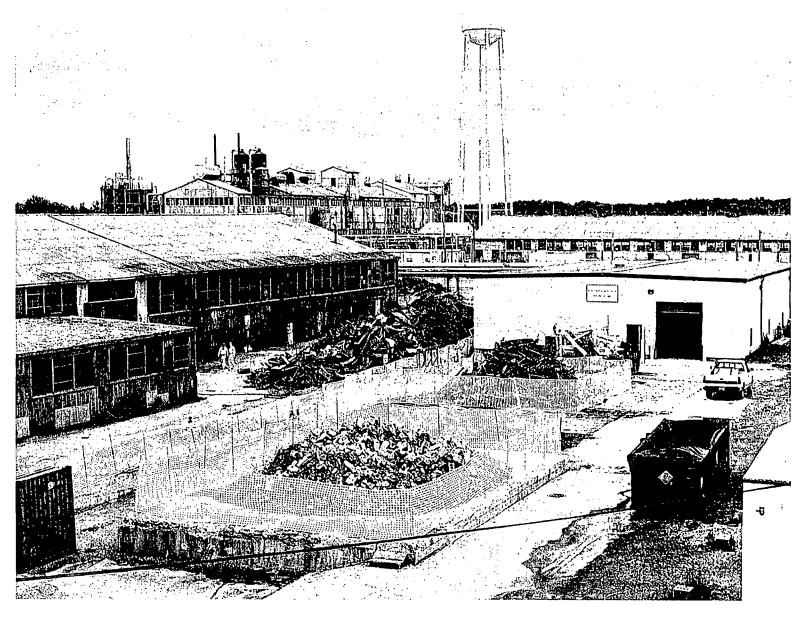


Photo taken May 1999

PROJECT NEWS OU4 - SILOS PROJECT

Silos 1 & 2:

- Accelerated Waste Retrieval
 - Foster Wheeler initiated conceptual design
- Proof-of-Principle Testing
 - Vendors' test reports from demonstration runs being finalized
 - Public will have opportunity to review reports in July
- Silos 1 and 2 Dome Resealing
 - Completed resealing of domes to reduce radon emissions

SILO DOME SEALING



Photo taken May 1999

SILO DOME SEALING



Photo taken May 1999

SILOS INFRASTRUCTURE

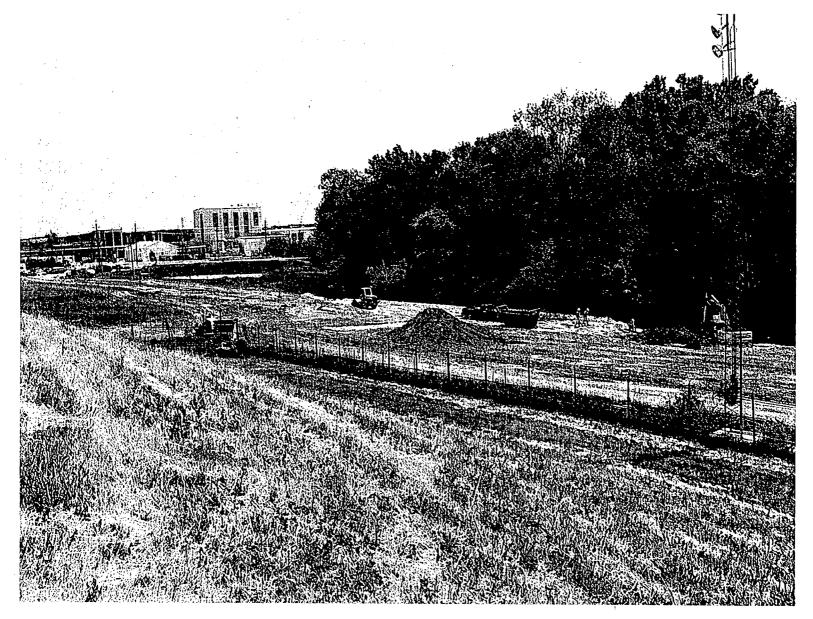


Photo taken May 1999

PROJECT NEWS OU4 - SILOS PROJECT

Silo 3 Project:

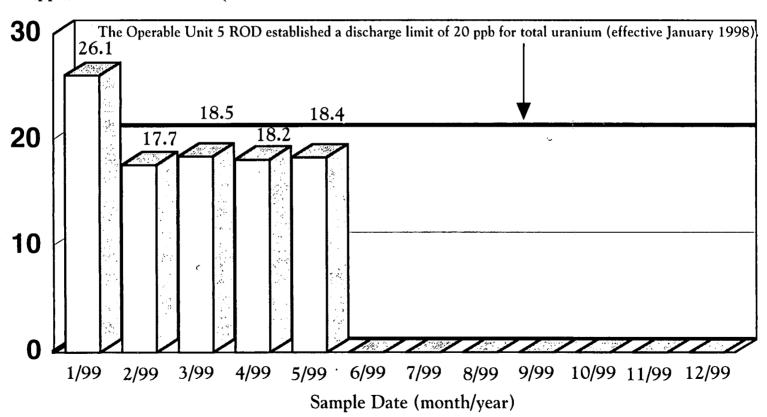
• Rocky Mountain Remediation Services continues to prepare design documents

PROJECT NEWS OU 5 - AQUIFER RESTORATION/ WASTEWATER PROJECT

- Compliance with discharge requirements
- Re-injection demonstration project update
- Evaluation of the South Plume contamination complete

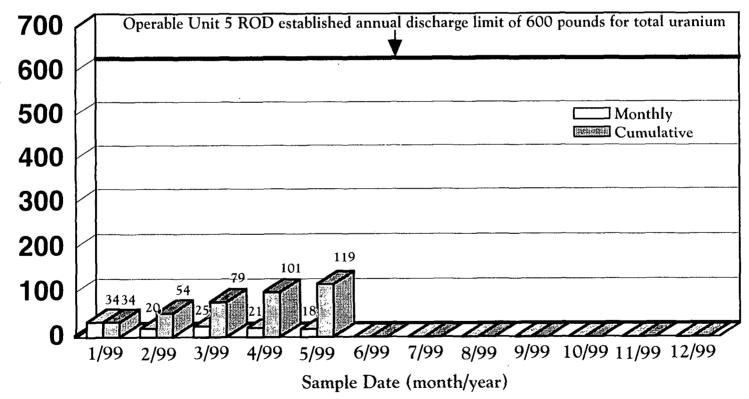
AVERAGE MONTHLY TOTAL URANIUM CONCENTRATION DISCHARGED TO THE GREAT MIAMI RIVER IN 1999

Concentration (ppb)



POUNDS OF URANIUM DISCHARGED TO THE GREAT MIAMI RIVER IN 1999

Weight (pounds)



Note: Sum of monthly discharges may not always agree with cumulative total because of rounding differences.

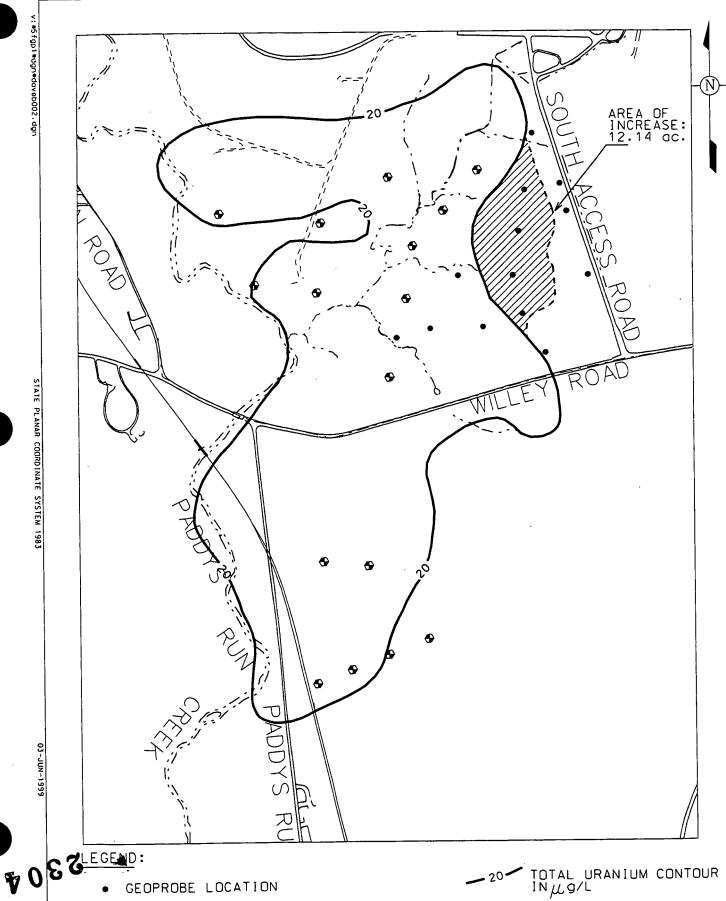
PROJECT NEWS OU 5 - AQUIFER RESTORATION/ WASTEWATER PROJECT

- Re-Injection Demonstration Project
 - One-year demonstration project to determine if re-injection will be part of aquifer restoration
 - Began re-injecting treated groundwater in September 1998
 - Five-well system re-injecting at a rate of 200 gallons per minute per well

Graphic 58.5D 6/99

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STATE PLANAR COORDINATE SYSTEM 1983



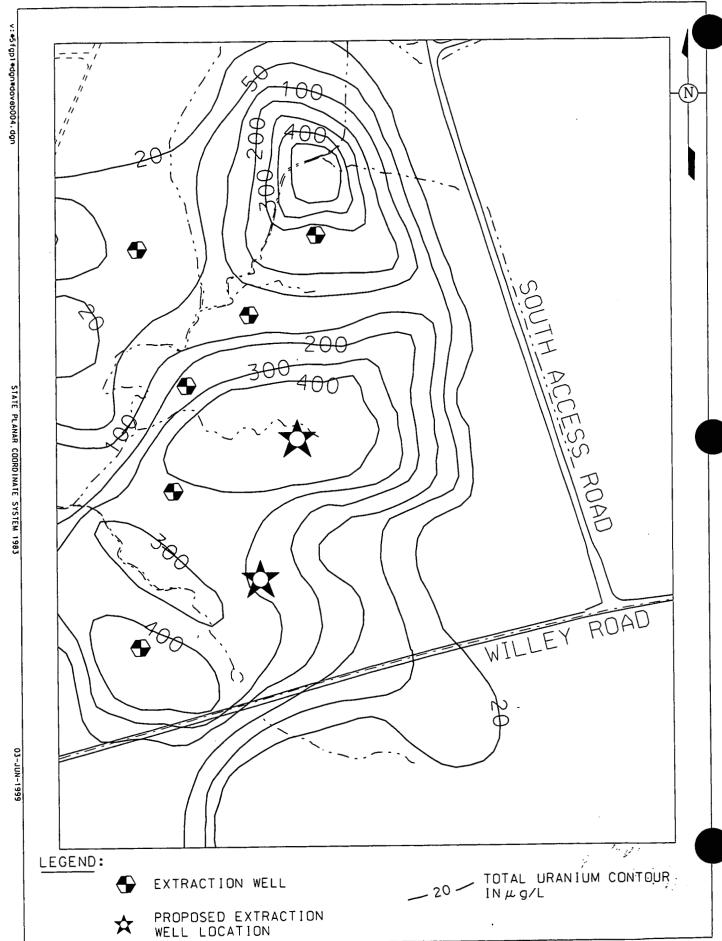
GEOPROBE LOCATION

EXTRACTION WELL LOCATION

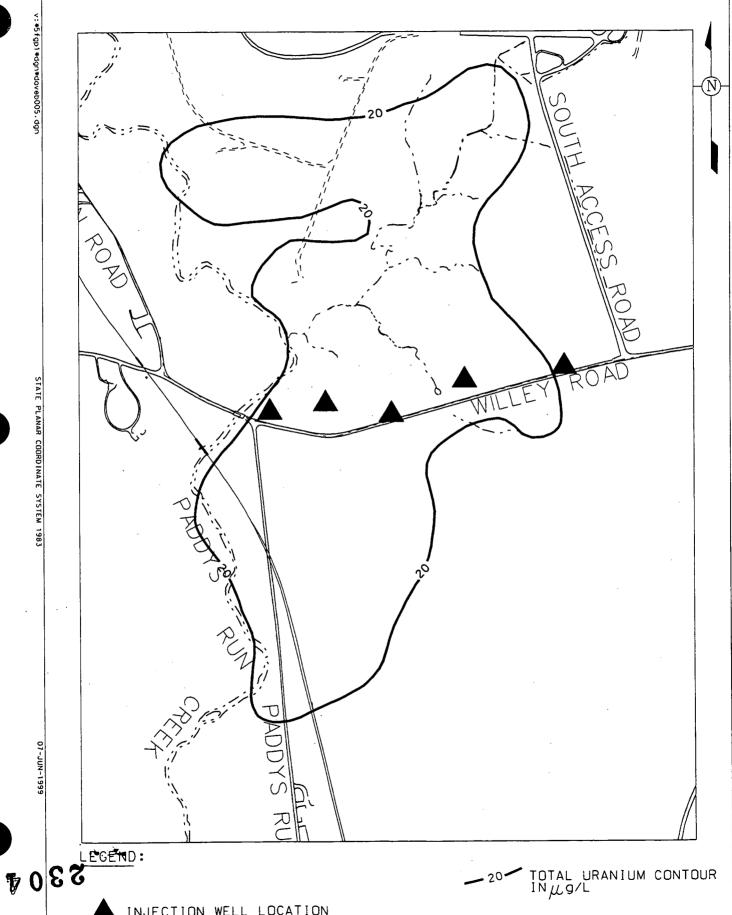
TOTAL URANIUM CONTOUR INµg/L

NEW TOTAL URANIUM CONTOUR

SOUTH PLUME



JECTION WELLS



INJECTION WELL LOCATION

TOTAL URANIUM CONTOUR

GEOPROBE DEMONSTRATION



Photos taken May 1999

PROJECT NEWS OU 5 - SOIL CHARACTERIZATION & EXCAVATION PROJECT

- Wetland Project construction completed
- Sewage Treatment Plant site preparation activities completed; excavation began in May
- Production area remediation conceptual design completed
- Lime Sludge Pond design and implementation plan completed
- Collection of Area 8, Phase II and Area 6 certification samples began in May
- Excavation activities in Southern Waste Units to resume in July
- Stabilization/excavation of lead-contaminated soils within firing range area and former trap range to begin this summer

WETLAND PROJECT

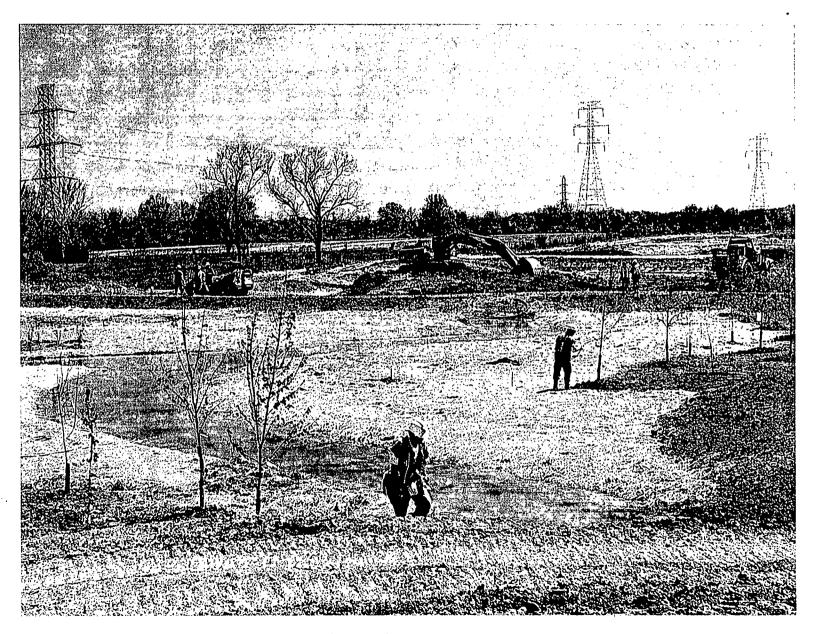


Photo taken May 1999

ECO PARK



Photo taken April 1999

SOUTHERN WASTE UNITS



Photo taken April 1999

PROJECT NEWS WASTE MANAGEMENT

- Standard Startup Review of low-level waste shipments being conducted to ensure safe, quality shipments are transported to the Nevada Test Site
- Nuclear material shipments to Portsmouth initiated last week
- Stakeholders from across the nation identified eight consensus statements regarding transportation at FCAB sponsored Transportation Workshop
- Final shipment of Batch 7 liquid mixed waste will be shipped this week; Batch 8 shipment scheduled to begin next week
- Final request for proposals for intermodal transportation services will be issued in June; contract award scheduled for August

T-HOPPER INSPECTION IN BUILDING 80

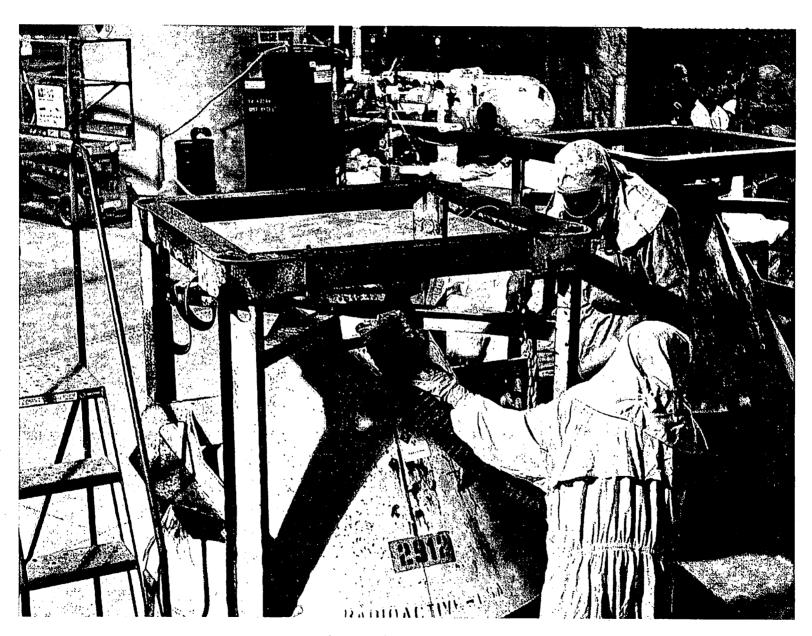


Photo taken May 1999

NUCLEAR MATERIAL SHIPMENTS



Photo taken June 1999

FCAB TRANSPORTATION WORKSHOP



Photo taken May 1999

FCAB TRANSPORTATION WORKSHOP

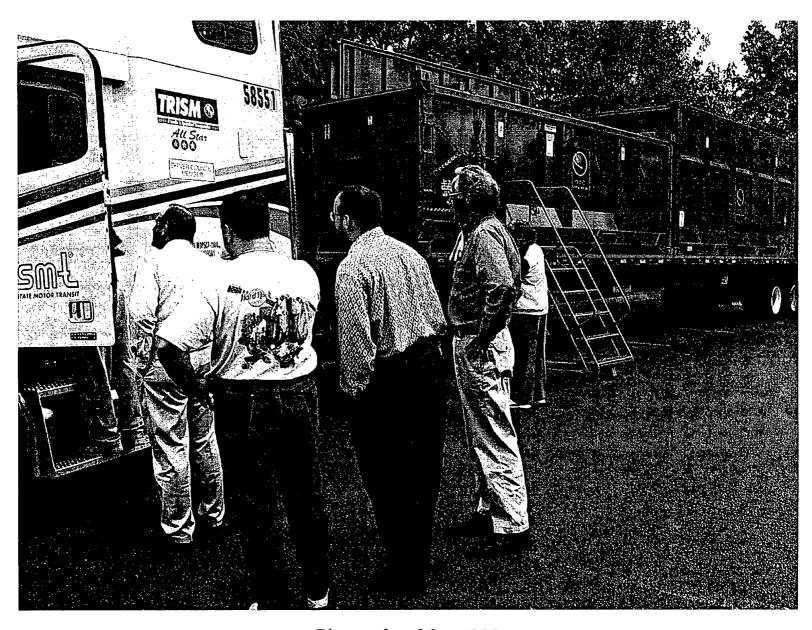


Photo taken May 1999

LIQUID MIXED WASTE

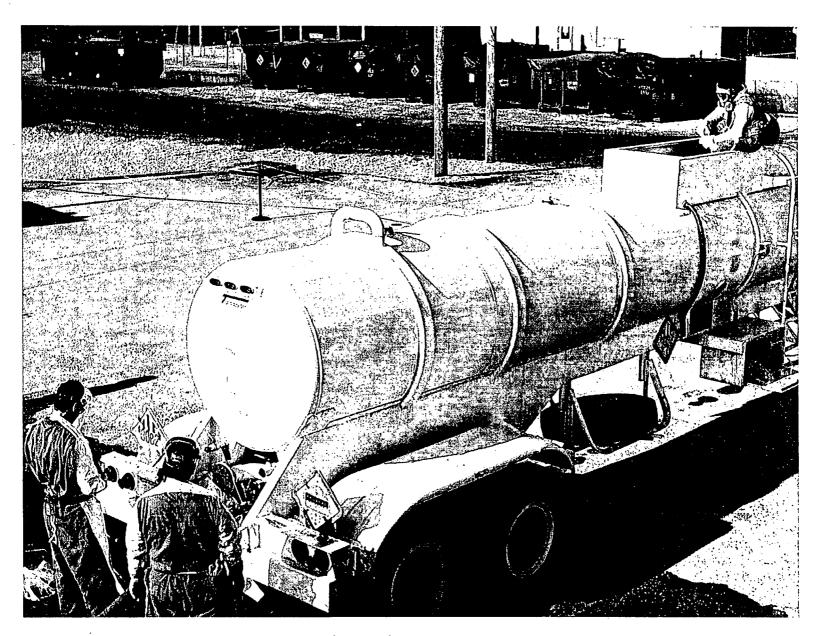


Photo taken May 1999

WASTE PITS REMEDIAL ACTION PROJECT

MAY 1999	
Major Work Activities	Enforceable Milestones
 Waste Pit Project Activities Shipped two unit trains to Envirocare of Utah, encompassing total of 10,990 tons of waste Continued construction of remaining treatment facilities Continued loading of waste into railcars in anticipation of next unit train shipment 	None
 Planning, Training & Contracts Continued treatment facility operations training for on-site personnel 	
60-DAY LOOK AHEAD	
Anticipated Work Activities	Enforceable Milestones
 Waste Pit Project Activities Continue loading of waste into railcars & shipment of unit trains to Envirocare Complete facilities needed for Pit Excavation & full processing; initiate acceptance testing for process facilities & prepare for Standard Startup Review for Dryer Operations Await completion of regulatory review of Draft Final Remedial Action (RA) Package deliverables; submit Final RA package Complete excavation of Soil Pile 6 & begin excavation of Soil Pile 7 	None
Planning, Training & Contracts Continue training of on-site personnel for full operations	

MAY 1999

Major Work Activities	Enforceable Milestones
 Completed installation of Interim Leachate Transmission line Continued clay screening in Borrow Area Continued Cell 3 subgrade preparation Issued revised OSDF Systems Plan to regulatory agencies 	None
60-DAY LOOK AHEA	D
Anticipated Work Activities	Enforceable Milestones
 Begin placing waste into Cells 1 & 2 Continue clay screening in Borrow Area Commence construction of clay liner in Cell 3 Initiate design of Permanent Leachate Line 	Begin Cell 3 construction by 7/1/99 (Note: This milestone was met on 4/29/99 with start of Cell 3 subgrade preparation)

DOE Project Manager --- Jay Jalovec/513-648-3122

FDF Project Manager --- Mike Hickey/513-648-5971

DECONTAMINATION & DISMANTLEMENT PROJECTS

MAY 1999					
Major Work Activities	Enforceable Milestones				
Facilities Shutdown					
 Completed shutdown of Pipe Bridges Archived 38 boxes of Safe Shutdown records to Records Center 	Submitted Safe Shutdown Project Closeout Report to regulators 5/10/99				
Decontamination & Dismantlement (D&D) Projects	·				
 Maintenance/Tank Farm & Water Storage Tank Project Began installation of underground utilities Continued construction of water storage tank Completed D&D of Buildings 12B & 12C Plant 5 Complex Issued Notice-to-Proceed to subcontractor, MACTEC, Inc., on 5/17/99 MACTEC began mobilization of key project personnel 	Submitted Plant 6/East Warehouse Complex Draft Implementation Plan to regulators 4/30/99, meeting milestone date of 5/1/99 Submitted Plant 5 Complex D&D Draft Implementation Plan to regulators 1/25/99, substantially in advance of milestone date of 5/2/99				
60-DAY LOOK AHEAD					
Anticipated Work Activities	Enforceable Milestones				
Facilities Shutdown Project					
Begin Building 64/65 facility shutdown Begin work on Burn Pad	None .				
D&D Projects					
 Maintenance/Tank Farm & Water Storage Tank Project Continued D&D of Buildings 12A, 19C, & 19E, Railroad Locomotive & Pipe Bridges Complete installation of underground utilities Complete construction of Water Storage Tank Plant 5 Complex MACTEC, Inc., to mobilize 7/1/99 	Complete Field Activities on RCRA/CERCLA Integrated Closure for Trane Incinerators, UNH Tanks, Hot Raffinate Building by 6/1/99; submit Completion Report to regulators by 7/30/99				

SILOS PROJECT

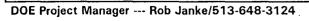
MAY 1999

Enforceable Milestones
None
Enforceable Milestones
None
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AQUIFER RESTORATION/WASTEWATER PROJECT

MAY 1999					
Major Work Activities	Enforceable Milestones				
Submitted February 1999 Operating Report for Injection Demonstration System to DOE 5/4/99; submitted to regulatory agencies 5/12/99	Submitted NPDES Noncompliance Report to OEPA 5/14/99 (covering 04/98)				
Continued geoprobing activities in South Field area	Submitted monthly National Pollutant Discharge Elimination System (NPDES) Discharge Monitoring				
Completed construction of Stormwater Retention Basin (SWRB) area drainage improvements	Report (DMR) to OEPA 5/13/99 (covering 4/98)				
Continued construction of Sludge Removal System at SWRB and Biosurge Lagoon (BSL); activity is approximately 75% complete					
Initiated Advanced Wastewater Treatment (AWWT) Facility Laboratory Expansion Project construction					
Initiated preliminary design of additional extraction wells for South Field Extraction System (SFES)					
60-DAY LOOK AHEA	AD.				
Anticipated Work Activities	Enforceable Milestones				
Continue to geoprobe in South Field area	Submit monthly NPDES DMR to OEPA				
Complete construction of Sludge Removal Systems at SWRB and BSL; begin start-up testing	Submit Integrated Site Environmental Monitoring Report to regulatory agencies by 6/1/99				
Continue designing additional extraction wells for SFES	Submit Integrated Environmental Monitoring				
Receive bids for upgrading of AWWT Distributed Control System and award contract	Program Quarterly Update Report to regulatory agencies by 6/26/99, covering first quarter of 1999				
Continue AWWT Laboratory Expansion construction					

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SOIL CHARACTERIZATION & EXCAVATION PROJECT

Major Work Activities	Enforceable Milestones
 Area 1 Phase II (Southern Portion of East Field) Completed Trap Range Stabilization treatability study; received Ohio EPA concurrence Completed all Site Preparation Package construction Initiated preliminary construction associated with Sewage Treatment Plant (STP) excavation; includes culvert/fence installation, diversion ditch construction & construction of support road for On-Site Disposal Facility (OSDF) subcontractor Received Ohio EPA approval of Certification Design Letter for North Area of Area I Phase II (Cell 3 of OSDF) 	None
 Area 2 Phase I (Southern Waste Units) Completed RTRAK (Radiation Tracking System) scanning within Inactive Flyash Pile (IFP) at Boring #3 & in southwest corner Completed treatability study for stabilization of lead-contaminated firing range 	
Area 2 Phase III (South Central Portion of the Fernald Site) Received regulatory agency comments on Certification Design Letter & Certification Sampling Project Specific Plan	
 Areas 3, 4 & 5 (Former Production Area) Completed conceptual design activities & development of 3-D model Submitted Integrated Remedial Design Package for Lime Sludge Ponds to regulatory agencies Held alignment meeting 5/21/99 with Lockwood Greene Technologies for Title I/II design work 	
 Natural Resource Restoration Continued planting in Area 8 Phase I vegetation plots Continued Wetland Mitigation field work Initiated review of Ecological Research Case Study Draft Report prepared by Texas Southern University 	

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60-DAY LOOK AHEAD	
Anticipated Work Activities	Enforceable Milestones
 Area 1 Phase II (Southern Portion of East Field) Begin excavation monitoring at STP Complete digester excavation at STP & transport to Soil Pile 7 Complete East & West Impacted Material Stockpile excavations Mobilize for full scale Trap Range stabilization 	None
Area 2 Phase I (Southern Waste Units) Complete additional sampling in IFP & accessible areas of South Field; begin excavation Mobilize & begin in-situ stabilization in Firing Range area	
Area 3A/4A (Eastern Half of Former Production Area) Receive/approve Task Order Plan from Lockwood Greene	
Natural Resource Restoration Issue Responsiveness Summary and Finding regarding final land use at Fernald Reseed selected plots in Area 1 Phase I Vegetation Plots Research Project Complete planting in Area 8 Phase I vegetation plots Complete Wetland Mitigation field work	

WASTE MANAGEMENT PROJECTS

MAY 1999	
Major Work Activities	Enforceable Milestones
Waste Shipping Activities	None
Nuclear Materials Disposition - Shipped 27,654 pounds of depleted uranium tetrafluoride (UF ₄) to DOE-Oak Ridge's Portsmouth, Ohio site (shipment actually took place on 6/2/99)	
Waste Treatment Projects	
Thorium Legacy Waste Project (TLWP) - Repackaged 76 boxes low level waste for shipment to NTS - Segregated 4 boxes of mixed waste for treatment - Total of 318 boxes repackaged so far	
Nuclear Materials Projects	
 NMD Operations Continued repackaging of approximately 14,500 10-gallon cans of depleted uranium tetrafluoride (UF₄) for shipment to DOE-Oak Ridge Total of 242 of estimated 540 boxes packaged as of 5/20/99 	
60-DAY LOOK AHEAD	
Anticipated Work Activities	Enforceable Milestones
· Waste Shipping Activities	None
 Low Level Waste Shipping Perform Standard Startup Review in preparation for resumption of shipments to NTS Mixed Waste Shipping Complete shipment of Batch #7 (19,000+ gallons mixed waste) to Toxic Substance Control Act Incinerator; begin shipping Batch #8 (18,100 gallons newly generated & recharacterized low level waste) Ship 143 drums mixed waste to Envirocare of Utah, Inc. 	
Waste Treatment Projects	· .
TLWP - Continue repackaging operations Site Treatment Plan (STP) - Prepare amendment to STP to allow disposition of Fire Training Facility waste through OSDF	
Nuclear Materials Projects	
 NMD Operations Continue repackaging cans of depleted UF₄ for shipment to Portsmouth 	